**#20347** - <https://redmine.vnc.biz/issues/20347>

1. **Description**:

For a easier maintaining of VNCTalkAuthToken and VNCHybridAuthenticator procedures, I decided to use only the python implementation used in *prosody-pacakging.git/prosody\_authProvider/* .

Therefore please change the external user implementation under */opt/VNCtalk/vnc-uc/VNCtalk/external\_user/www* to query and use the python files.

* Modify the PHP code to wrap the */opt/VNCtalk/prosody-packaging/prosody\_authProvider/VNCHybridAuthenticator.py* file just like */opt/VNCtalk/prosody-packaging/prosody\_authProvider/vnc\_prosody\_auth\_provider.sh* does it.
* At the same time, 2.3.1 changed the VNCtalk zimlet Admin Settings page, where the admin can specify a different Shared Secret for each VNCtalk installation.
* During the installation with vnctalkInstaller.sh the script asks for the new Shared Secret. This secret must be the same as the one specified in the admin configuration site.
* The PHP code will now use the wrapper to check if the provided authToken is a valid one.
* The PHP wrapper file must always call the python script functions
* Search for the sections where the auth tokens are being checked and replace them with the new checking code
* Extend */opt/VNCtalk/vnc-uc/VNCtalk/vnctalkInstaller/conf.templates/externalUser\_vnctalk.ini.template* to include a new variable vnctalkexternal.auth\_hybridauth\_script\_path=${TEMPLATE\_VNCTALK\_PATH}/prosody-pacakging.git/prosody\_authProvider/VNCHybridAuthenticator.py\_ and use the new variable.

1. **Analytic**
   1. **Root cause**:

* Have problem with authentication mechanism. This problem is using the old HMAC.
* Mysql still save the old HMAC of user. ( user map with external user).
* PHP code: send old conferenceID room.
* mini.js: get wrong INITIATOR, sometime get user "focus".
* Have problem with directory path of vnctalk.ini. It doesn't install external-user
  1. **Solutions**:
* Needs to be resolved first <https://redmine.vnc.biz/issues/20193> to generate the correct tokens in the client side.
* Would be to install vnctalk from scratch again, using the vnctalkinstaller.sh. ON each version, this script adds some more stuff, therefore on every update it is essential to execute it each time. Refer to: <https://redmine.vnc.biz/projects/vnc-zimlet-chat/wiki/VNCtalkUpdatingProcedure#Frontend-Server-Zimbra-ZCS-server>
* To solve this problem the php script in charge of generating the auth tokens (for any user) must call the VNCHybridAuthenticator.py script. See <https://redmine.vnc.biz/issues/20347#note-13>.
* Modified function \_getAuthToken($username).
* Modified function isValidVNCtalkAuthToken.
* Edit PHP code : add $host argument when call two functions above.
* The path should be actually */opt/VNCtalk/vnc-uc/VNCtalk/external\_user/vnctalk.ini*
* The ini config file should not be inside the www folder, otherwise an attacker could download the ini file and stole the passwords!
* The actual value should be **TEMPLATE\_VNCTALK\_EXTERNAL\_LOGIN\_PATH = /opt/VNCtalk/vnc-uc/VNCtalk/external\_user/** !
* Then after patching you must either modify the vnctalk\_config.ini file and change the path or delete the vnctalk\_config.ini file and make a fresh install! Otherwise the installer will take the old value with the "www" inside....
* Solved the problem install "vnctalkInstaller.sh -a" on ticket [~~#20669~~](https://redmine.vnc.biz/issues/20669).

1. **Implementation**
   1. **Code:**

* The php aplication must also be able to generate the auth token for any external user.

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| /opt/VNCtalk/prosody-packaging/prosody\_authProvider/VNCHybridAuthenticator.py $ACTION $USER $HOST /opt/VNCtalk/prosody-packaging/prosody\_authProvider/VNCHybridAuthenticator.py generatetoken rainer.schuth gmail.com |

* Apply this patch on VNCHybridAuthenticator.py

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| Edit sys.exit(generateAuthenticationToken(user,host)) -> sys.exit(generateAuthenticationToken(USER,HOST)) |

* Modified fucntion isValidVNCtalkAuthToken:

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| function isValidVNCtalkAuthToken($\_username, $\_token) {  $host = 'prosody-dev4.vnctalk.zimbra-vnc.de';  $action = 'auth';  $command = '/opt/VNCtalk/prosody-packaging/prosody\_authProvider/VNCHybridAuthenticator.py "auth" "'.$\_username.'" "prosody-dev4.vnctalk.zimbra-vnc.de" "'.$\_token.'"';  exec($command, $output, $result);   if($result == 0) {  return true;  } else {  return false;  }  } |

* Modified function \_getAuthToken($username):

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| *function VNCTalkAuthToken($username,$host)  {  $this->username = $username;  $this->host = $host;  $this->sumhash = $this->\_getAuthToken($username,$host);  } ... function \_getAuthToken($username,$host)  {  $config = parse\_ini\_file('/opt/VNCtalk/vnc-uc/VNCtalk/external\_user/www/vnctalk.ini');   $command = $config["vnctalkexternal.auth\_hybridauth\_script\_path"].' "generatetoken" "'.$username.'" "'.$host.'"';  exec($command, $output, $result);  return $output[0];  }* |

* Modified function isValidVNCtalkAuthToken:

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| *function isValidVNCtalkAuthToken($\_username, $\_token, $\_host) {  $action = 'auth';  $config = parse\_ini\_file('/opt/VNCtalk/vnc-uc/VNCtalk/external\_user/www/vnctalk.ini');  $command = $config["vnctalkexternal.auth\_hybridauth\_script\_path"].' "auth" "'.$\_username.'" "'.$\_host.'" "'.$\_token.'"';  exec($command, $output, $result);  if($result == 0) {  return true;  } else {  return false;  }  }* |

* Add variable on vnctalk.ini:

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| *vnctalkexternal.auth\_hybridauth\_script\_path=${TEMPLATE\_VNCTALK\_PATH}/prosody-pacakging/prosody\_authProvider/VNCHybridAuthenticator.py* |

* Therefore the externa\_user nginx conf files need also to be patched to find the *www* path. Apply appended patch.

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| **VNCtalk/vnctalkInstaller/conf.templates/nginx\_external-user-server.template**  …  root ${TEMPLATE\_VNCTALK\_EXTERNAL\_LOGIN\_PATH}/www;  …  root ${TEMPLATE\_VNCTALK\_EXTERNAL\_LOGIN\_PATH}/www;  …  **VNCtalk/vnctalkInstaller/vnctalkInstaller/vnctalkInstaller.sh**  ...  export TEMPLATE\_VNCTALK\_EXTERNAL\_LOGIN\_PATH=$(getOption "PathsConfigFiles" "EXTERNAL\_LOGIN\_PATH" "${TEMPLATE\_VNCTALK\_PATH}/vnc-uc/VNCtalk/external\_user")  ... |